

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P263469

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

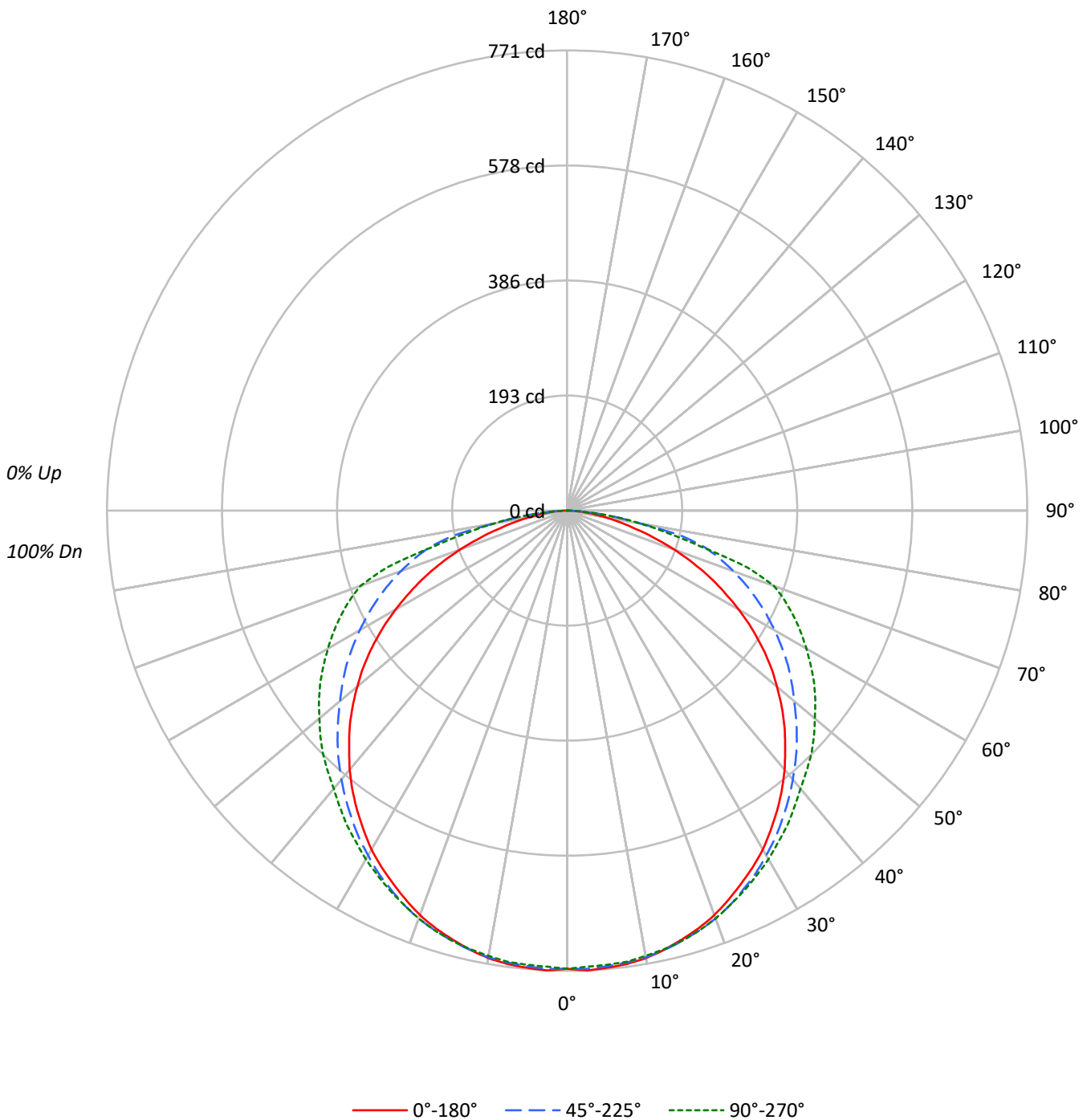
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1033	1033	1033
5°	1038	1035	1032
10°	1040	1038	1035
15°	1036	1039	1039
20°	1032	1042	1042
25°	1024	1039	1043
30°	1019	1037	1048
35°	1007	1034	1057
40°	996	1033	1068
45°	981	1036	1100
50°	961	1039	1134
55°	936	1059	1186
60°	894	1080	1245
65°	839	1114	1334
70°	750	1164	1450
75°	619	1245	1200
80°	505	962	972
85°	406	639	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	210.3	8.7
20°-30°	321.5	13.2
30°-40°	393.2	16.2
40°-50°	420.7	17.3
50°-60°	402.9	16.6
60°-70°	340.8	14.0
70°-80°	216.0	8.9
80°-90°	49.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	604.7	24.9
0°-40°	997.9	41.1
0°-60°	1821.5	75.0
0°-90°	2428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	769	765	766	765	764	73
15°	744	742	746	746	746	210
25°	690	690	700	702	702	318
35°	613	617	630	638	643	384
45°	516	524	544	567	578	397
55°	399	411	452	489	505	356
65°	263	288	350	398	419	259
75°	119	168	240	238	231	130
85°	26	40	41	38	39	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	767.5	767.5	767.5	767.5	767.5
2.5°	771.3	767.5	768.8	767.5	765.0
5°	768.8	765.0	766.3	765.0	763.8
7.5°	766.3	762.5	763.8	762.5	762.5
10°	761.3	757.5	760.0	758.8	757.5
12.5°	753.7	751.2	753.7	752.5	752.5
15°	743.7	742.5	746.2	746.2	746.2
17.5°	733.7	732.4	737.4	737.4	737.4
20°	721.1	719.9	727.4	727.4	727.4
22.5°	706.1	704.8	714.9	714.9	714.9
25°	689.8	689.8	699.8	702.3	702.3
27.5°	673.5	673.5	684.8	688.5	688.5
30°	655.9	655.9	667.2	672.2	674.7
32.5°	634.6	637.1	649.6	655.9	658.4
35°	613.3	617.0	629.6	638.4	643.4
37.5°	590.7	594.5	609.5	619.5	625.8
40°	566.9	571.9	588.2	600.7	608.3
42.5°	540.5	548.1	566.9	583.2	593.2
45°	515.5	524.2	544.3	566.9	578.2
47.5°	487.9	497.9	520.5	549.3	560.6
50°	459.0	469.0	496.6	529.2	541.8
52.5°	430.2	441.5	474.1	509.2	524.2
55°	398.8	411.4	451.5	489.1	505.4
57.5°	366.2	381.3	426.4	466.5	484.1
60°	332.3	351.2	401.3	444.0	462.8
62.5°	297.2	319.8	376.2	421.4	441.5
65°	263.4	288.5	349.9	397.6	418.9
67.5°	227.0	258.4	323.6	375.0	395.1
70°	190.6	227.0	296.0	348.7	368.7
72.5°	154.3	198.2	268.4	316.0	316.0
75°	119.1	168.1	239.5	238.3	230.8
77.5°	90.3	140.5	196.9	168.1	169.3
80°	65.2	112.9	124.2	124.2	125.4
82.5°	43.9	86.5	80.3	79.0	81.5
85°	26.3	40.1	41.4	37.6	38.9
87.5°	12.5	13.8	11.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)